



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2020-09

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1 Administration

1.1 New default value: Attribute SameSite=Lax for the FirstSpirit Session Cookie

FirstSpirit uses several standard web applications (fs5root, fs5webedit, fs5webmon, fs5preview, fs5staging) as well as possibly additional, project-local web applications (fs5webedit_PROJECTID and fs5preview_PROJECTID). For (user) authentication FirstSpirit, like most other web applications, uses randomly generated **session cookies** (see [information on the use of cookies](#)).

Many browsers (including Chrome 80) have massively restricted third-party cookies since the beginning of the year. All cookies that do not have the attribute `SameSite` are causing warning messages. `SameSite` is a standard that is intended to prevent cookies from being automatically sent by the browser with so-called cross-site requests and thus offers protection against cross-site request forgery (CSRF). In addition to this security aspect, the `SameSite` attribute allows you to define which cookies can be read in which context.

The FirstSpirit Session Cookie supports the `SameSite` attribute from **FirstSpirit 2020-05** on with the option of configuration (see [configuration servletSessionCookieSameSite](#)). The previously recommended default setting (`SameSite` attribute is not set) can now cause the following log output in the JavaScript console in some browsers:

```
Cookie "FS52ID" will be soon treated as cross-site cookie (...)
```

The default setting for the `SameSite` attribute is changed with FirstSpirit 2020-09 to `SameSite=Lax`.

With this setting the session cookie is only sent in the first-party context (i.e. only if the page for the cookie matches the URL in the browser) and only together with cross-site requests that are considered “safe”. This applies to secure HTTP methods (GET, HEAD, OPTIONS, and TRACE) and top-level navigation (actions that cause the URL in the browser address bar to change, such as links).

e-Spirit recommends retaining the default settings of the `fs-server.conf` configuration file. In most cases the default setting covers both security aspects (good protection against cross-site request forgery) and user concerns (good user experience).

Only in exceptional cases (e.g. FirstSpirit as an embedded web app) a change is necessary.



The value for the FirstSpirit Session Cookies can be set via the configuration file `fs-server.conf`, both globally via the parameter `servletSessionCookieSameSite` and individually for specific WebApp paths, e.g. `servletSessionCookieSameSite.fs5webmon=None` for FirstSpirit ServerMonitoring. A WebApp-specific configuration overwrites the global setting `servletSessionCookieSameSite` for this WebApp path.

1.2 Problems starting the server after updating from FirstSpirit 2020-08

When switching from FirstSpirit 2020-08 to another FirstSpirit version, the FirstSpirit server may not be accessible. The web applications log an error message of the type

```
de.espirit.firstspirit.common.ConnectError: Wrong client version
```

In this case the web applications should be deleted manually. The following directories can be affected:

- `~/tomcat/webapps`
- `~/firstspirit/web`
- `~/firstspirit/data/modules/FirstSpirit Jetty Server.JettyService/webapps`

The FirstSpirit server can then be restarted.

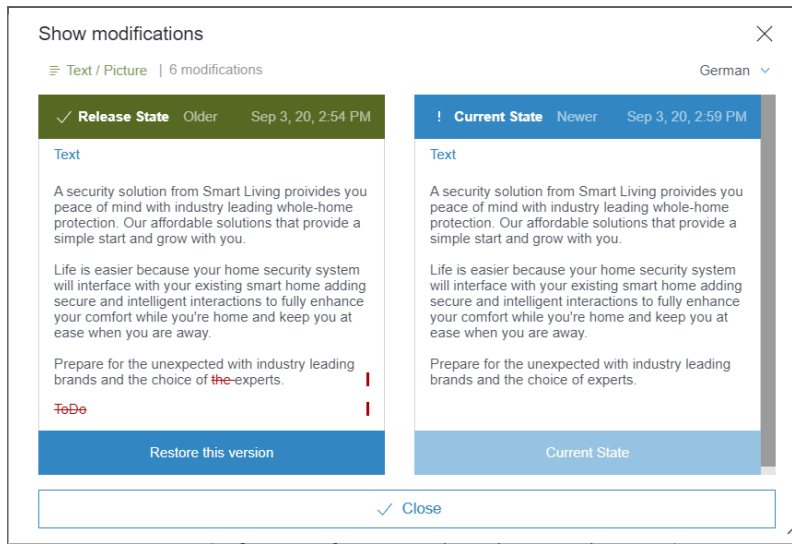
If you require support, please contact e-Spirit Technical Support (<https://help.e-spirit.com>).

2 ContentCreator

2.1 Restoring a version in the "Show modifications" dialog

In the "Comparison View" for a page, changes that have been made to the page can be visualized in the "Show modifications" dialog. This is opened via the "Display differences" icon:

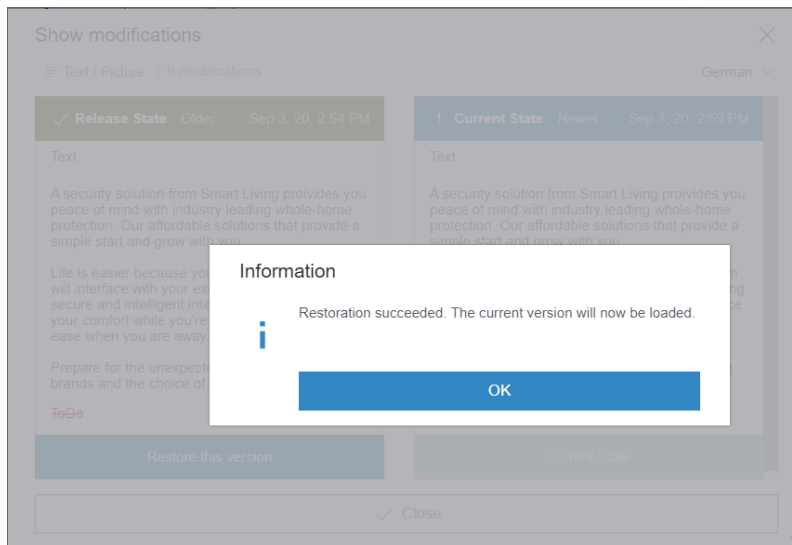




The user guidance when restoring a version has been modified in this dialog (via the “Restore this version” button or icon



Previously, the dialog closed immediately after restoring the version, but now it remains open until the “Restoration succeeded. The current version will now be loaded” information dialog is confirmed with “OK”:



In this way, it is now possible – when using the API (ComparisonDialogOperation interface, `de.espirit.firstspirit.webedit.server` package, FirstSpirit Developer API) – to hold off on closing the dialog until another action is carried out.

3 FirstSpirit Content Experience Tools (CXT)

3.1 Latest module versions

FirstSpirit 2020-09 supports the following module versions for “FirstSpirit Content Experience Tools”:

Module / file name	Version number
FirstSpirit CXT DAP Bridge	1.32
<code>dataservice-[version].fsm</code>	
FirstSpirit CXT FragmentCreator	2.10
<code>fragment-creator-[version].fsm</code>	
FirstSpirit Fragment DAP	1.28
<code>fragmentdap-[version].fsm</code>	
FirstSpirit Media DAP	1.25*
<code>mediadap-[version].fsm</code>	
FirstSpirit PageRef DAP	1.2
<code>pagerefdap-[version].fsm</code>	
FirstSpirit Markdown Editor	1.23*
<code>markdown-editor-[version].fsm</code>	
FirstSpirit Tagging Editor	1.23
<code>tagging-editor-[version].fsm</code>	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.24
<code>caas-integration-[version].fsm</code>	

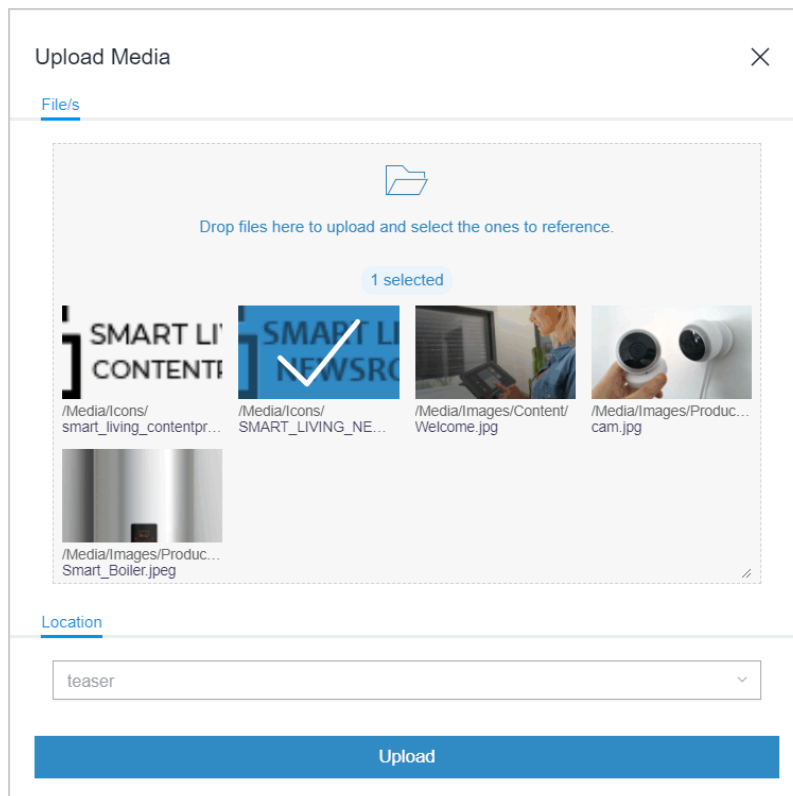
* These modules require FirstSpirit 2020-03 or higher from this version.

3.2 Media DAP: Uploading directory structures

To upload and select media in FragmentCreator, the “FS_INDEX” component is used with the “Media DAP” module. In the current release, entire directory structures (folders), including any images and files of different formats they contain, can be selected for upload instead of just files from the workstation PC.



To do this, the required folder(s) must be moved to the upload dialog using drag-and-drop. Once the folders have been dropped, all media contained in the folders are displayed in the dialog. This enables the media that are to be referenced in the component to be selected. Potential restrictions regarding file size and format that have been implemented by the project developer are taken into account directly. Only files which meet the size and format requirements are transferred to the dialog. The folder path for the media to be uploaded is displayed underneath the media, along with the file name.



Once all the required media have been selected, the upload can be started by clicking “Upload”. The upload dialog closes automatically once the media have been uploaded successfully. Exception: In the event of an error, the dialog stays open, displays a corresponding error message, and the media affected are not uploaded.

In the Media Store in the associated FirstSpirit project, the uploaded media and folders are mapped in the file structure of the workstation PC. Empty folders are not taken into account, however. For both the media and the folders, the names of the folders and files are used by the workstation PC in each case.

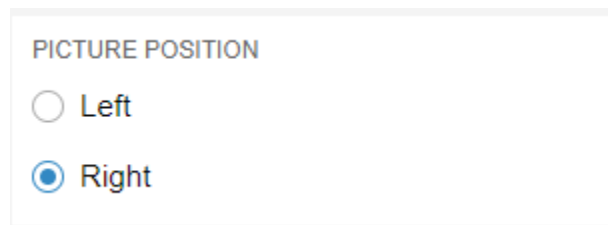


3.3 New input component for switching between two states: CMS_INPUT_TOGGLE

In the current release, FragmentCreator also supports CMS_INPUT_TOGGLE, the input component for switching between two states.

Example:

```
<CMS_INPUT_TOGGLE name="picture_position" useLanguages="yes">
  <LANGINFOS>
    <LANGINFO lang="" label="Picture position"/>
    <LANGINFO lang="DE" label="Ausrichtung des Bildes"/>
  </LANGINFOS>
  <OFF>
    <LANGINFO lang="" label="Right"/>
    <LANGINFO lang="DE" label="Rechts"/>
  </OFF>
  <ON>
    <LANGINFO lang="" label="Left"/>
    <LANGINFO lang="DE" label="Links"/>
  </ON>
</CMS_INPUT_TOGGLE>
```



CMS_INPUT_TOGGLE in FragmentCreator

The various states are mapped via the mandatory tags <ON> and <OFF>. A label must be defined for each state via the <LANGINFO> tag.

The radio buttons for the component are displayed one below the other with the <ON> state at the top and the <OFF> state at the bottom. This order cannot be changed.



Note: Unlike in FirstSpirit ContentCreator and SiteArchitect, only the “Radio button” type is supported in FragmentCreator (corresponds to `type="RADIO"`). The `type` parameter is not taken into account in FragmentCreator; the input component is always presented as a radio button.

For more information, see <https://docs.e-spirit.com/odfs/edocs/cxt/templates/input-component/index.html>.

4 Compatibility

4.1 Postponed: Release of the new database layer Oracle Database 19c

The release of the new database layer Oracle Database 19c, planned for 2020Q3, has been postponed and is now scheduled for 2020Q4.

Currently, the Oracle Database 19c layer is still in the EAP (Early Access Program) phase. The EAP phase will be accompanied through the FirstSpirit Community (<https://community.e-spirit.com>). Detailed documentation regarding the use of Oracle Database 19c with FirstSpirit is also published in the Community.

5 Module Development, Scripts, API

5.1 Accessing generated data via schedule script

In a generation process, data is generated from FirstSpirit elements and is stored in the file system. After one or more generation processes of this nature, it is often necessary to carry out post-processing steps on the generated data. Examples include:

- replacing placeholder media with media from a MAM (controlled via metadata)
- training a search engine using metadata stored for the individual FirstSpirit elements

The new method `getOutput()` in the `GenerationAgent` interface (FirstSpirit Developer API, `de.espirit.firstspirit.scheduling.agency` package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems.



! In order to use the functionality, a generation action must be executed first with the “Use ACL database” option activated.

Example code (Beanshell):

```
import de.espirit.firstspirit.scheduling.agency.GenerationAgent;
import de.espirit.firstspirit.agency.LanguageAgent;
import de.espirit.firstspirit.scheduling.agency.FileEntry;
import de.espirit.firstspirit.access.store.IDProvider;
generationAgent = context.requireSpecialist(GenerationAgent.TYPE);
ml = context.requireSpecialist(LanguageAgent.TYPE).getMasterLanguage();
Collection<FileEntry> output = generationAgent.getOutput();
for (entry : output) {
    uid = entry.getElementUid();
    IDProvider.UidType uidType = entry.getElementUidType();
    path = entry.getPath();
    element = entry.getElement(context, false);
    context.logInfo("+ Generated: " + uid + " (" + uidType + ") = " +
        element.getDisplayName(ml) + " at: " + path);
}
```

The method `getOutput()` outputs all data that is located in the generation directory when the script is executed (i.e., the data could potentially be deployed). Multiple previous generations of the schedule are taken into account automatically.

In addition to the output allocation, the `PermissionsAgent` (FirstSpirit Developer API, `de.espirit.firstspirit.access.editor` package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects. These permissions are special **user permissions** which are specified by the template developer via a project-specific metadata template using the **CMS_INPUT_PERMISSION** input component and are then defined in the metadata tab of the FirstSpirit objects (they are not editorial permissions which are defined in FirstSpirit). The `PermissionsAgent` also takes into account the inheritance of these permissions, i.e., permissions which have been inherited from a higher-level node are also read out.



5.2 During delta generation, media changes can now be forwarded to datasets that reference the medium in question.

The new rule `PROPAGATE_MEDIA_CHANGES_TO_CONTENTSTORE` in the `DeltaGeneration` interface (FirstSpirit Developer API, `de.espirit.firstspirit.access.schedule` package) can now be used to forward media changes to datasets.

When the rule is used, releasing a medium means that all datasets that reference this medium in the release state are regarded as “changed” for the delta generation.

6 SiteArchitect / ServerManager

6.1 External users can now be used for password configurations in ServerManager.

In the current FirstSpirit release, external users can also be used for password configurations in ServerManager. These passwords can be used both for scripts and for remote connections.

The extension affects all passwords which were explicitly set in remote connections or script tasks in ServerManager.

- In the Schedule management area – in the “Script properties” dialog, see [Documentation for administrators – FirstSpirit ServerManager / Schedule entry planning / Server-based actions / Execute script](#)
- In the Remote projects area – in the “Edit remote project configuration” dialog, see [Documentation for Administrators – FirstSpirit ServerManager / Project properties / Remote projects](#)

Note: For security reasons, server administrators cannot be used for the password configuration.

To expand the users, the password format of the *PasswordAgent* has been changed. This does not affect existing data; the old format can continue to be read. A new authentication only takes place if the password is re-entered in the configuration dialogs. The old login implementation continues to be used with old persistent data.



Note: Forward compatibility is ensured. Once the FirstSpirit Server has been updated to the latest version, all set passwords continue to be valid. It is not necessary to reset the passwords.

Note: If the FirstSpirit Server is downgraded to FirstSpirit version 2020-08 or earlier, encrypted passwords are now no longer compatible via the *PasswordAgent* and must be reset.

6.2 Certificate update FirstSpirit Launcher

The FirstSpirit Launcher is digitally signed. Thanks to the signature, the customer knows where the application comes from and that it was not manipulated during the transfer (from the manufacturer to the recipient).

In the current FirstSpirit version, the certificate of the FirstSpirit Launcher is updated.

7 Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSER	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	



Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
FirstSpirit Access API: release (de.espirit.firstspirit.access.AccessUtil)	2018-06	
FirstSpirit Developer API: getLastLoginAsDate (de.espirit.firstspirit.agency.UserStatisticsAgent)	2018-07	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	



Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	
WebSphere Application Server support for FirstSpirit	2019-05	
Legacy mode for the FirstSpirit server and module development	2019-06	
Control files for Windows and Linux operating systems (old)	2020-08	February 2021

8 Overview

ID	Description	Categories
CORE-7234	<p>External users can now be used for password configurations in ServerManager.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: External users can now be used for password configurations in ServerManager.”.</p>	ServerManager
CORE-10457	Syntax errors in BeanShell scripts for script visibility are now handled appropriately and no longer cause menus to be hidden, for example.	ContentCreator, Developer, Editor, FirstSpirit Administrator
CORE-11017	<p>The new rule <code>PROPAGATE_MEDIA_CHANGES_TO_CONTENTSTORE</code> in the <code>DeltaGeneration</code> interface can now be used to forward media changes to datasets that reference the medium in question.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: During delta generation, media changes can now be forwarded to datasets that reference the medium in question.”.</p>	Delta generation, Developer



ID	Description	Categories
CORE-11179	The <code>reload</code> parameter, which can be forwarded to the <code>NewSection</code> executable via the <code>fsbutton(...)</code> function, is now correctly evaluated again.	ContentCreator, Developer, Editor, FirstSpirit API
CORE-11540	A problem has been rectified which could lead to unnecessary waiting times when copying datasets in FirstSpirit SiteArchitect (from the second copy of a dataset).	Content Store, Database, Performance, SiteArchitect
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message <code>WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidWeb client report 'xyz' couldn't be loaded!)</code>).	Data Access Plug-In, Debugging, Developer, Editor, FirstSpirit Administrator, Module development, Reports
CORE-12297	Element caching when using FirstSpirit connections has been corrected. In rare cases, data changes to store elements in service implementations have not been correctly detected or forwarded.	Developer, FirstSpirit API
CORE-12416	<p>The new method <code>getOutput()</code> in the <code>GenerationAgent</code> interface (FirstSpirit Developer API, <code>de.espirit.firstspirit.scheduling.agency</code> package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems. In addition to the output allocation, the <code>PermissionsAgent</code> (FirstSpirit Developer API, <code>de.espirit.firstspirit.access.editor</code> package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Accessing generated data via schedule script”.</p>	Developer, FirstSpirit API, Generation, Module development



ID	Description	Categories
CORE-12623	<p>When using an FS_CATALOG input component with multiple FS_INDEX input components which can each be used to select the data from a DataAccess plug-in via drag-and-drop, the transfer type is now evaluated correctly in ContentCreator. Previously, erroneous behavior could occur in FS_CATALOG when dragging and dropping data.</p>	ContentCreator, Developer, Editor, Input Components, Module development, Reports
CORE-12651	<p>With the current FirstSpirit release the FirstSpirit Session Cookie is extended by the attribute <code>SameSite=Lax</code> (previously no value was set).</p> <p>Further information can be found in chapter “Administration: New default value: Attribute <code>SameSite=Lax</code> for the FirstSpirit Session Cookie”.</p>	FirstSpirit Administrator, Security, Server Administrator, ServerMonitoring
CORE-12677	<p>When switching from FirstSpirit 2020-08 to another FirstSpirit version, the FirstSpirit server may not be accessible.</p> <p>Further information can be found in chapter “Administration: Problems starting the server after updating from FirstSpirit 2020-08”.</p>	FirstSpirit Administrator, Server Administrator
CORE-12701	<p>Modified user guidance when restoring a version in the “Show modifications” dialog.</p> <p>Further information can be found in chapter “ContentCreator: Restoring a version in the “Show modifications” dialog”.</p>	ContentCreator, Developer, Editor, FirstSpirit API
CORE-12728	<p>The performance when using the Navigation view has been improved. Previously, particularly in the event of larger volumes of referenced datasets, increased numbers of server requests could occur in certain cases, resulting in higher loads.</p>	ContentCreator, Developer, FirstSpirit Administrator, Performance
CORE-12816	<p>The release of the new database layer Oracle Database 19c, planned for 2020Q3, has been postponed and is now scheduled for 2020Q4. Currently, the Oracle Database 19c layer is still in the “EAP” (“Early Access Program”) phase.</p> <p>Further information can be found in chapter “Compatibility: Postponed: Release of the new database layer Oracle Database 19c”.</p>	Database



ID	Description	Categories
CORE-15515	<p>In the current FirstSpirit version, the certificate of the FirstSpirit Launcher is updated.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Certificate update FirstSpirit Launcher”.</p>	Launcher
CXT-1558	<p>The input component for switching between two states – CMS_INPUT_TOGGLE – is now also supported in FragmentCreator.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): New input component for switching between two states: CMS_INPUT_TOGGLE”.</p>	Developer, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Input Components
CXT-1682	<p>If a large number of groupings (CMS_GROUP) are defined for a form, navigation using the arrows now works again in all cases.</p>	ContentCreator, Editor, Input Components
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>	Developer, Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Media, Media Store
CXT-1755	<p>The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.</p>	FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules, Remote access, Sessions
CXT-1760	<p>Entries from the <i>WebeditStatusNotePlugins</i> (FirstSpirit Developer API, <code>de.espirit.firstspirit.webedit.plugin.status.WebeditStatusNotePlugins</code>) are now displayed again in the status menu.</p>	ContentCreator, Developer, FirstSpirit API, Module development
CXT-1773	<p>Validations in link templates within a CMS_INPUT_LINK input component now function as expected in FirstSpirit ContentCreator.</p>	ContentCreator, Developer, Dynamic Forms, Editor, Input Components



ID	Description	Categories
CXT-1786	In rare cases, tooltips were not hidden in FirstSpirit ContentCreator when the mouse pointer was moved to a different area. This problem has been rectified.	ContentCreator, Editor
CXT-1793	Previously, when using the “Undo” or “Restore” function in the menu bar, the function “Display differences” (page state / “Display all changes”) or when resetting a section via the <code>ComparisonDialogOperation</code> interface (<code>de.espirit.firstspirit.webedit.server</code> package, FirstSpirit Developer API), the associated page was erroneously not locked for editing and the page was not marked as changed.	ContentCreator, Developer
CXT-1800	Fixed update problems in the tree view of the Navigation view.	ContentCreator, Editor
CXT-1832	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.	Developer, FirstSpirit Administrator, FirstSpirit Content as a Service (CaaS), FragmentCreator, Modules
CXT-1837	When cropping the original resolution using the ContentCreator's media management (“Edit image section”), incorrect cropping and error messages could occur when saving.	ContentCreator, Editor, Media, Media Store
DEVEX-395	<p>As of FSDevTools release 2.5.10, the execution of project and server schedules by means of the <code>schedule start</code> command is supported. The execution is started via the command line using the following schema:</p> <pre data-bbox="358 1402 1143 1472">fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> <p>In order to correctly detect incorrect executions, the <code>RunState</code> of the schedule is now also evaluated following execution (ABORTED / ERROR; FINISHED_WITH_ERRORS; SUCCESS) and logged accordingly. The changes are provided with FSDevTools release 2.6.2.</p>	Developer, FSDevTools



9 Categories

9.1 ContentCreator

ID	Description
CORE-10457	Syntax errors in BeanShell scripts for script visibility are now handled appropriately and no longer cause menus to be hidden, for example.
CORE-11179	The <code>reload</code> parameter, which can be forwarded to the <code>NewSection</code> executable via the <code>fsbutton(...)</code> function, is now correctly evaluated again.
CORE-12623	When using an <code>FS_CATALOG</code> input component with multiple <code>FS_INDEX</code> input components which can each be used to select the data from a <code>DataAccess</code> plug-in via drag-and-drop, the transfer type is now evaluated correctly in ContentCreator. Previously, erroneous behavior could occur in <code>FS_CATALOG</code> when dragging and dropping data.
CORE-12701	<p>Modified user guidance when restoring a version in the “Show modifications” dialog.</p> <p>Further information can be found in chapter “ContentCreator: Restoring a version in the “Show modifications” dialog”.</p>
CORE-12728	The performance when using the Navigation view has been improved. Previously, particularly in the event of larger volumes of referenced datasets, increased numbers of server requests could occur in certain cases, resulting in higher loads.
CXT-1682	If a large number of groupings (<code>CMS_GROUP</code>) are defined for a form, navigation using the arrows now works again in all cases.
CXT-1760	Entries from the <code>WebeditStatusNotePlugins</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.webedit.plugin.status.WebeditStatusNotePlugin</code>) are now displayed again in the status menu.
CXT-1773	Validations in link templates within a <code>CMS_INPUT_LINK</code> input component now function as expected in FirstSpirit ContentCreator.
CXT-1786	In rare cases, tooltips were not hidden in FirstSpirit ContentCreator when the mouse pointer was moved to a different area. This problem has been rectified.
CXT-1793	Previously, when using the “Undo” or “Restore” function in the menu bar, the function “Display differences” (page state / “Display all changes”) or when resetting a section via the <code>ComparisonDialogOperation</code> interface (<code>de.espirit.firstspirit.webedit.server</code> package, FirstSpirit Developer API), the



ID	Description
	associated page was erroneously not locked for editing and the page was not marked as changed.
CXT-1800	Fixed update problems in the tree view of the Navigation view.
CXT-1837	When cropping the original resolution using the ContentCreator's media management ("Edit image section"), incorrect cropping and error messages could occur when saving.

9.2 Data Access Plug-In

ID	Description
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!).

9.3 Database

ID	Description
CORE-11540	A problem has been rectified which could lead to unnecessary waiting times when copying datasets in FirstSpirit SiteArchitect (from the second copy of a dataset).
CORE-12816	<p>The release of the new database layer Oracle Database 19c, planned for 2020Q3, has been postponed and is now scheduled for 2020Q4. Currently, the Oracle Database 19c layer is still in the "EAP" ("Early Access Program") phase.</p> <p>Further information can be found in chapter "Compatibility: Postponed: Release of the new database layer Oracle Database 19c".</p>



9.4 Content Store

ID	Description
CORE-11540	A problem has been rectified which could lead to unnecessary waiting times when copying datasets in FirstSpirit SiteArchitect (from the second copy of a dataset).

9.5 Debugging

ID	Description
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!).

9.6 Delta generation

ID	Description
CORE-11017	<p>The new rule PROPAGATE_MEDIA_CHANGES_TO_CONTENTSTORE in the DeltaGeneration interface can now be used to forward media changes to datasets that reference the medium in question.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: During delta generation, media changes can now be forwarded to datasets that reference the medium in question.”.</p>

9.7 Dynamic Forms

ID	Description
CXT-1773	Validations in link templates within a CMS_INPUT_LINK input component now function as expected in FirstSpirit ContentCreator.



9.8 Input Components

ID	Description
CORE-12623	When using an FS_CATALOG input component with multiple FS_INDEX input components which can each be used to select the data from a DataAccess plug-in via drag-and-drop, the transfer type is now evaluated correctly in ContentCreator. Previously, erroneous behavior could occur in FS_CATALOG when dragging and dropping data.
CXT-1558	The input component for switching between two states – CMS_INPUT_TOGGLE – is now also supported in FragmentCreator. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): New input component for switching between two states: CMS_INPUT_TOGGLE”.
CXT-1682	If a large number of groupings (CMS_GROUP) are defined for a form, navigation using the arrows now works again in all cases.
CXT-1773	Validations in link templates within a CMS_INPUT_LINK input component now function as expected in FirstSpirit ContentCreator.

9.9 Developer

ID	Description
CORE-10457	Syntax errors in BeanShell scripts for script visibility are now handled appropriately and no longer cause menus to be hidden, for example.
CORE-11017	The new rule PROPAGATE_MEDIA_CHANGES_TO_CONTENTSTORE in the DeltaGeneration interface can now be used to forward media changes to datasets that reference the medium in question. Further information can be found in chapter “Module Development, Scripts, API: During delta generation, media changes can now be forwarded to datasets that reference the medium in question.”.
CORE-11179	The reload parameter, which can be forwarded to the NewSection executable via the fsbutton(...) function, is now correctly evaluated again.
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message WARN 18.11.2019 09:41:07.595)



ID	Description
	(de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!).
CORE-12297	Element caching when using FirstSpirit connections has been corrected. In rare cases, data changes to store elements in service implementations have not been correctly detected or forwarded.
CORE-12416	<p>The new method <code>getOutput()</code> in the <code>GenerationAgent</code> interface (FirstSpirit Developer API, <code>de.espirit.firstspirit.scheduling.agency</code> package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems. In addition to the output allocation, the <code>PermissionsAgent</code> (FirstSpirit Developer API, <code>de.espirit.firstspirit.access.editor</code> package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Accessing generated data via schedule script”.</p>
CORE-12623	When using an <code>FS_CATALOG</code> input component with multiple <code>FS_INDEX</code> input components which can each be used to select the data from a <code>DataAccess</code> plug-in via drag-and-drop, the transfer type is now evaluated correctly in <code>ContentCreator</code> . Previously, erroneous behavior could occur in <code>FS_CATALOG</code> when dragging and dropping data.
CORE-12701	<p>Modified user guidance when restoring a version in the “Show modifications” dialog.</p> <p>Further information can be found in chapter “ContentCreator: Restoring a version in the “Show modifications” dialog”.</p>
CORE-12728	The performance when using the Navigation view has been improved. Previously, particularly in the event of larger volumes of referenced datasets, increased numbers of server requests could occur in certain cases, resulting in higher loads.
CXT-1558	<p>The input component for switching between two states – <code>CMS_INPUT_TOGGLE</code> – is now also supported in <code>FragmentCreator</code>.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): New input component for switching between two states: <code>CMS_INPUT_TOGGLE</code>”.</p>
CXT-1746	Uploading media to directory structures using drag-and-drop



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.
CXT-1760	Entries from the <i>WebeditStatusNotePlugins</i> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.webedit.plugin.status.WebeditStatusNotePlugin</code>) are now displayed again in the status menu.
CXT-1773	Validations in link templates within a <code>CMS_INPUT_LINK</code> input component now function as expected in FirstSpirit ContentCreator.
CXT-1793	Previously, when using the “Undo” or “Restore” function in the menu bar, the function “Display differences” (page state / “Display all changes”) or when resetting a section via the <code>ComparisonDialogOperation</code> interface (<code>de.espirit.firstspirit.webedit.server</code> package, FirstSpirit Developer API), the associated page was erroneously not locked for editing and the page was not marked as changed.
CXT-1832	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
DEVEX-395	As of FSDevTools release 2.5.10, the execution of project and server schedules by means of the <code>schedule start</code> command is supported. The execution is started via the command line using the following schema: <pre>fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> In order to correctly detect incorrect executions, the <code>RunState</code> of the schedule is now also evaluated following execution (ABORTED / ERROR; FINISHED_WITH_ERRORS; SUCCESS) and logged accordingly. The changes are provided with FSDevTools release 2.6.2 .

9.10 FirstSpirit Content as a Service (CaaS)

ID	Description
CXT-1832	FirstSpirit Content Experience Tools: Latest module versions



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.11 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-1558	<p>The input component for switching between two states – CMS_INPUT_TOGGLE – is now also supported in FragmentCreator.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): New input component for switching between two states: CMS_INPUT_TOGGLE”.</p>
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>
CXT-1755	The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.

9.12 FirstSpirit Administrator

ID	Description
CORE-10457	Syntax errors in BeanShell scripts for script visibility are now handled appropriately and no longer cause menus to be hidden, for example.
CORE-11592	<p>The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message <code>WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!</code>).</p>
CORE-12651	<p>With the current FirstSpirit release the FirstSpirit Session Cookie is extended by the attribute <code>SameSite=Lax</code> (previously no value was set).</p> <p>Further information can be found in chapter “Administration: New default value: Attribute <code>SameSite=Lax</code> for the FirstSpirit Session Cookie”.</p>



ID	Description
CORE-12677	<p>When switching from FirstSpirit 2020-08 to another FirstSpirit version, the FirstSpirit server may not be accessible.</p> <p>Further information can be found in chapter “Administration: Problems starting the server after updating from FirstSpirit 2020-08”.</p>
CORE-12728	The performance when using the Navigation view has been improved. Previously, particularly in the event of larger volumes of referenced datasets, increased numbers of server requests could occur in certain cases, resulting in higher loads.
CXT-1755	The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.
CXT-1832	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>

9.13 FirstSpirit API

ID	Description
CORE-11179	The <code>reload</code> parameter, which can be forwarded to the <code>NewSection</code> executable via the <code>fsbutton(...)</code> function, is now correctly evaluated again.
CORE-12297	Element caching when using FirstSpirit connections has been corrected. In rare cases, data changes to store elements in service implementations have not been correctly detected or forwarded.
CORE-12416	<p>The new method <code>getOutput()</code> in the <code>GenerationAgent</code> interface (FirstSpirit Developer API, <code>de.espirit.firstspirit.scheduling.agency</code> package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems. In addition to the output allocation, the <code>PermissionsAgent</code> (FirstSpirit Developer API, <code>de.espirit.firstspirit.access.editor</code> package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Accessing generated data via schedule script”.</p>



ID	Description
CORE-12701	<p>Modified user guidance when restoring a version in the “Show modifications” dialog.</p> <p>Further information can be found in chapter “ContentCreator: Restoring a version in the “Show modifications” dialog”.</p>
CXT-1760	<p>Entries from the <i>WebeditStatusNotePlugins</i> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.webedit.plugin.status.WebeditStatusNotePlugin</code>) are now displayed again in the status menu.</p>

9.14 FragmentCreator

ID	Description
CXT-1558	<p>The input component for switching between two states – <code>CMS_INPUT_TOGGLE</code> – is now also supported in FragmentCreator.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): New input component for switching between two states: <code>CMS_INPUT_TOGGLE</code>”.</p>
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>
CXT-1755	<p>The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.</p>
CXT-1832	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>

9.15 FSDevTools

ID	Description
DEVEX-395	<p>As of FSDevTools release 2.5.10, the execution of project and server schedules by means of the <code>schedule start</code> command is supported. The execution is started via the command line using the following schema:</p>



ID	Description
	<pre>fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> <p>In order to correctly detect incorrect executions, the <code>RunState</code> of the schedule is now also evaluated following execution (<code>ABORTED / ERROR</code>; <code>FINISHED_WITH_ERRORS</code>; <code>SUCCESS</code>) and logged accordingly. The changes are provided with FSDevTools release 2.6.2.</p>

9.16 Generation

ID	Description
CORE-12416	<p>The new method <code>getOutput()</code> in the <code>GenerationAgent</code> interface (FirstSpirit Developer API, <code>de.espirit.firstspirit.scheduling.agency</code> package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems. In addition to the output allocation, the <code>PermissionsAgent</code> (FirstSpirit Developer API, <code>de.espirit.firstspirit.access.editor</code> package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Accessing generated data via schedule script”.</p>

9.17 Launcher

ID	Description
CORE-15515	<p>In the current FirstSpirit version, the certificate of the FirstSpirit Launcher is updated.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Certificate update FirstSpirit Launcher”.</p>



9.18 Media

ID	Description
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>
CXT-1837	When cropping the original resolution using the ContentCreator's media management (“Edit image section”), incorrect cropping and error messages could occur when saving.

9.19 Media Store

ID	Description
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>
CXT-1837	When cropping the original resolution using the ContentCreator's media management (“Edit image section”), incorrect cropping and error messages could occur when saving.

9.20 Module development

ID	Description
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message <code>WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!</code>).
CORE-12416	The new method <code>getOutput()</code> in the <code>GenerationAgent</code> interface (FirstSpirit Developer API, <code>de.espirit.firstspirit.scheduling.agency</code> package) can be used to allocate the generated files to the corresponding FirstSpirit objects after a generation process. This information can be used in a downstream schedule step in order to change the generated data or to forward the information about this data to third-party systems.



ID	Description
	<p>In addition to the output allocation, the <code>PermissionsAgent</code> (FirstSpirit Developer API, <code>de.espirit.firstspirit.access.editor</code> package) has been introduced in order to determine existing access and execution permissions for the individual FirstSpirit objects.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Accessing generated data via schedule script”.</p>
CORE-12623	When using an <code>FS_CATALOG</code> input component with multiple <code>FS_INDEX</code> input components which can each be used to select the data from a <code>DataAccess</code> plug-in via drag-and-drop, the transfer type is now evaluated correctly in <code>ContentCreator</code> . Previously, erroneous behavior could occur in <code>FS_CATALOG</code> when dragging and dropping data.
CXT-1760	Entries from the <code>WebeditStatusNotePlugins</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.webedit.plugin.status.WebeditStatusNotePlugin</code>) are now displayed again in the status menu.

9.21 Modules

ID	Description
CXT-1755	The sessions in the DAP Bridge are now closed correctly when logging out of <code>FragmentCreator</code> .
CXT-1832	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>

9.22 Performance

ID	Description
CORE-11540	A problem has been rectified which could lead to unnecessary waiting times when copying datasets in <code>FirstSpirit SiteArchitect</code> (from the second copy of a dataset).
CORE-12728	The performance when using the <code>Navigation</code> view has been improved. Previously, particularly in the event of larger volumes of referenced datasets, increased numbers of server requests could occur in certain cases, resulting in higher loads.



9.23 Editor

ID	Description
CORE-10457	Syntax errors in BeanShell scripts for script visibility are now handled appropriately and no longer cause menus to be hidden, for example.
CORE-11179	The <code>reload</code> parameter, which can be forwarded to the <code>NewSection</code> executable via the <code>fsbutton(...)</code> function, is now correctly evaluated again.
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message <code>WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!</code>).
CORE-12623	When using an <code>FS_CATALOG</code> input component with multiple <code>FS_INDEX</code> input components which can each be used to select the data from a <code>DataAccess</code> plug-in via drag-and-drop, the transfer type is now evaluated correctly in <code>ContentCreator</code> . Previously, erroneous behavior could occur in <code>FS_CATALOG</code> when dragging and dropping data.
CORE-12701	<p>Modified user guidance when restoring a version in the “Show modifications” dialog.</p> <p>Further information can be found in chapter “ContentCreator: Restoring a version in the “Show modifications” dialog”.</p>
CXT-1682	If a large number of groupings (<code>CMS_GROUP</code>) are defined for a form, navigation using the arrows now works again in all cases.
CXT-1746	<p>Uploading media to directory structures using drag-and-drop</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Media DAP: Uploading directory structures”.</p>
CXT-1773	Validations in link templates within a <code>CMS_INPUT_LINK</code> input component now function as expected in <code>FirstSpirit ContentCreator</code> .
CXT-1786	In rare cases, tooltips were not hidden in <code>FirstSpirit ContentCreator</code> when the mouse pointer was moved to a different area. This problem has been rectified.
CXT-1800	Fixed update problems in the tree view of the <code>Navigation</code> view.
CXT-1837	When cropping the original resolution using the <code>ContentCreator</code> 's media management (“Edit image section”), incorrect cropping and error messages could occur when saving.



9.24 Remote access

ID	Description
CXT-1755	The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.

9.25 Reports

ID	Description
CORE-11592	The error tolerance when implementing customer-specific reports has been increased so that reports can now also be displayed if there are problems using icons (e.g., error message WARN 18.11.2019 09:41:07.595 (de.espirit.firstspirit.webedit.server.sidgets.SidgetManager): Web client report 'xyz' couldn't be loaded!).
CORE-12623	When using an FS_CATALOG input component with multiple FS_INDEX input components which can each be used to select the data from a DataAccess plug-in via drag-and-drop, the transfer type is now evaluated correctly in ContentCreator. Previously, erroneous behavior could occur in FS_CATALOG when dragging and dropping data.

9.26 Server Administrator

ID	Description
CORE-12651	<p>With the current FirstSpirit release the FirstSpirit Session Cookie is extended by the attribute SameSite=Lax (previously no value was set).</p> <p>Further information can be found in chapter “Administration: New default value: Attribute SameSite=Lax for the FirstSpirit Session Cookie”.</p>
CORE-12677	<p>When switching from FirstSpirit 2020-08 to another FirstSpirit version, the FirstSpirit server may not be accessible.</p> <p>Further information can be found in chapter “Administration: Problems starting the server after updating from FirstSpirit 2020-08”.</p>



9.27 ServerManager

ID	Description
CORE-7234	External users can now be used for password configurations in ServerManager. Further information can be found in chapter "SiteArchitect / ServerManager: External users can now be used for password configurations in ServerManager."

9.28 ServerMonitoring

ID	Description
CORE-12651	With the current FirstSpirit release the FirstSpirit Session Cookie is extended by the attribute SameSite=Lax (previously no value was set). Further information can be found in chapter "Administration: New default value: Attribute SameSite=Lax for the FirstSpirit Session Cookie".

9.29 Security

ID	Description
CORE-12651	With the current FirstSpirit release the FirstSpirit Session Cookie is extended by the attribute SameSite=Lax (previously no value was set). Further information can be found in chapter "Administration: New default value: Attribute SameSite=Lax for the FirstSpirit Session Cookie".

9.30 SiteArchitect

ID	Description
CORE-11540	A problem has been rectified which could lead to unnecessary waiting times when copying datasets in FirstSpirit SiteArchitect (from the second copy of a dataset).



9.31 Sessions

ID	Description
CXT-1755	The sessions in the DAP Bridge are now closed correctly when logging out of FragmentCreator.

